

# QL-SecureView Pro / X-Ray Luggage Scanner

SCANNER PRODUCT OVERVIEW



# QL-SecureView Pro

## X-RAY LUGGAGE SCANNER

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The Quake Logic QL-SecureView Pro X-Ray Luggage Scanner is designed for efficient security screening of baggage and parcels in high-traffic environments. Powered by an ARM-based CPU and operating on a Linux system, it delivers stable and reliable performance. The system features a 21.5-inch LED display with 1920 × 1080 resolution, providing clear image visualization and intuitive monitoring for security operators.

- ✔ Linux operation system
- ✔ Digital signal processing and processor
- ✔ Energy-saving design
- ✔ Good quality images
- ✔ Self-diagnostic system
- ✔ Zoom up to 128×
- ✔ TIP (threat image projection) threat image projection
- ✔ Export formats: JPG, TIFF, BMP, VMI
- ✔ Automatic detection algorithms for drugs, explosives and high-density materials
- ✔ ARM CPU
- ✔ Continuous operation: 10,000 hours and above
- ✔ High penetration capability
- ✔ One-key power of
- ✔ Advanced image processing modes
- ✔ High-density alert
- ✔ Real-time image manipulation
- ✔ Storage capacity: up to 10,000 images automatically (supporting expanded capacities per customer note; optional storage >200,000 images)

# Dimensions, Mechanical & X-Ray Performance

## Dimensions

- Product size: 2648 × 844 × 1234 mm
- Tunnel size: 613 × 409.5 mm
- Alternate tunnel spec: ≥574 mm (W) × 372 mm (H) – confirm before order
- Conveyor height: approx. 654 mm
- Weight: approx. 450 kg

## Mechanical / Conveyor

- Conveyor speed: 0.2 m/s (typical), minimum 0.22 m/s if required
- Maximum load: 150 kg
- Conveyor drive: DC electric roller

## X-Ray Generator & Performance

- Generator voltage: 160 kV oil-cooled source
- Steel penetration: typically ~36 mm (up to 42 mm optional)
- Wire resolution: AWG40 (1.0 mm spatial resolution)
- Penetration resolution: typically AWG36
- Organic resolution: 1–120 mm
- Grayscale & mixture resolution: 1–40 mm
- Inorganic resolution: 1–60 mm
- Material discrimination: compliant with GB15208.1-2018

**Note:** Tunnel size and steel penetration level should be confirmed before order. Final specifications may vary depending on customer requirements.

# Radiation & Safety, Electrical & Environmental Conditions

## Radiation & Safety



X-ray dosage per inspection	$\leq 4.5 \mu\text{Sv (uGy)}$
Boundary leakage	$\leq 1.0 \mu\text{Sv/h (uGy/h)}$
Leakage current	$\leq 5.0 \text{ mA}$
Film safety	Guarantee ASA / ISO 1600 film
Safety & EMC	Meets the requirements of GB15208.1-2005 (safety performance, EMC, electrical safety)

## Certifications / Compliance



ISO9001, ISO14001, ISO27001, OHSMS18001, CE, RoHS, FCC, REACH, USA FDA; Radiation Safety Certificate from Ministry of Public Security; other quality and software registrations as listed by manufacturer

## Electrical



Operation power	AC 220 V ( $\pm 10\%$ 15%), 50 $\pm 3$ Hz (note: customer power compatibility requirement such as 120 V for Ecuador must be verified and an external transformer or local power option provided)
Power consumption	Guarantee ASA / ISO 1600 film

# Radiation & Safety, Electrical & Environmental Conditions

## Environmental / Operating Conditions

Operating Temperature	5°C to 40°C
Operating Humidity	0% to 90% (non-condensing)
Leakage current	≤5.0 mA
Storage Temperature	-20°C to 60°C
Storage Humidity	10% to 90%
Atmospheric Pressure	86 kPa to 106 kPa

## Image System & Software

### System Specs

- Operating system: Linux
- Memory: 2 GB
- Storage: 8 GB (internal); supports image recall and large image storage
- Image recall: 30 preceding images recallable
- Number of images stored: up to 10,000 automatically (expandable per configuration)

### Image Processing

- 1–64× continuous zoom/enlargement
- Color/BW, negative, high/low penetration
- Organic/inorganic stripping, pseudo color, general enhancement, image sharpening
- Real-time curve monitoring to detect acquisition system/component status

### Detector & Ray Source

- Probe / detector management: manual deletion of low-energy detector dead pixels and display of deleted pixels
- Ray source control: digital and analog source control modes; source parameters configurable

## Alarm & Troubleshooting

- Configurable sound and light alarm; sensitivity, minimum/maximum absorption rate and alarm duration adjustable; alarm can be enabled/disabled
- Automatic fault self-test with fault code prompts; monitoring of entrance/exit light barriers, side panel switches, emergency stop and lamp status; display of standard & current detection voltages

## User & Log Management

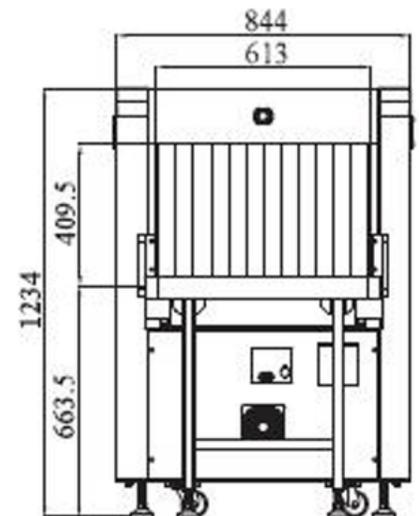
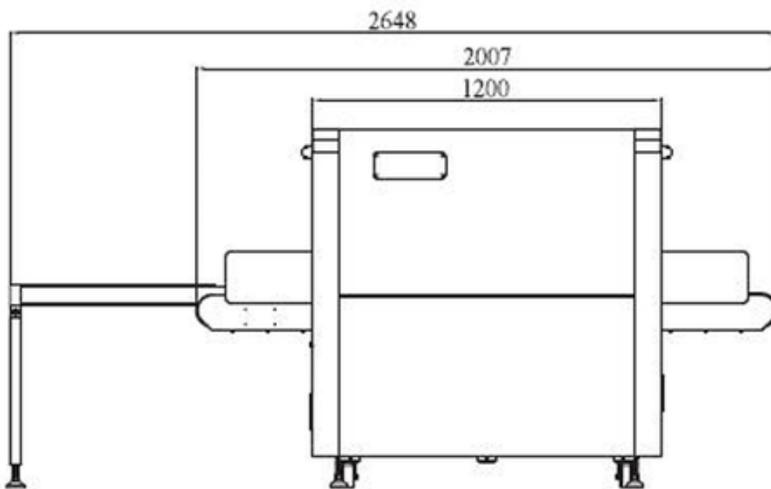
- Multi-user login, add/delete/edit users, set user levels and permissions
- Language: supports Chinese and English
- User operation logs and system logs; configurable log levels and retention

## TIP & Document Management

- TIP insertion reporting (user name, insertion counts, tags, false positive rate, detection probability, etc.); enable/disable TIP, set identification time, prompt time, insertion frequency, single-item insertion proportion; add/delete TIP files
- Document management: query, open and export checked images

## System Parameters & Status

- Select exported data/pictures/backup directory; select motor and detector types; enable debug mode; set model and gain; set IP address for network sharing; support for software upgrade Display total working hours, total ray source hours, total number of inspected baggage/packages; counters can be cleared



# Storage & Export, Certifications & Documentation

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## Storage & Export



**Export formats:** JPG, TIFF, BMP, VMI

**Network:** Configurable IP for sharing and remote upgrades

**Backup & export:** Selectable backup directory and exported data/pictures

## Certifications & Documentation



- ISO9001, ISO14001, ISO27001, OHSMS18001, CE, RoHS, FCC, REACH, USA FDA (per manufacturer)
- Health Inspection Report
- Computer Software Copyright Registration Certificate
- Software Product Registration Certificate
- Radiation Safety Certificate from Ministry of Public Security
- Quality Certification from Safety and Police Electronic Products Quality Inspection Center
- Design patent certification